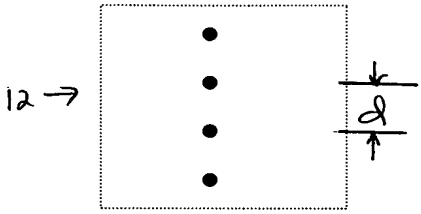

Figure 1A: Prior Art

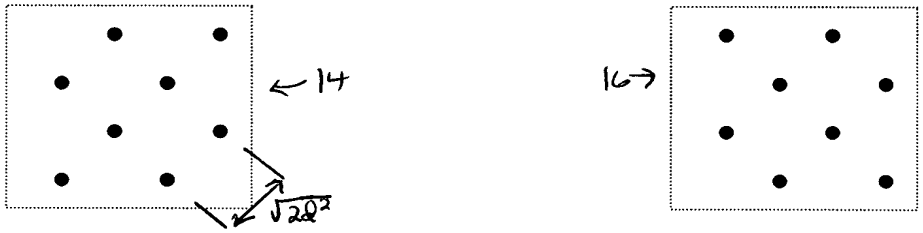

Figure 1B: Prior Art

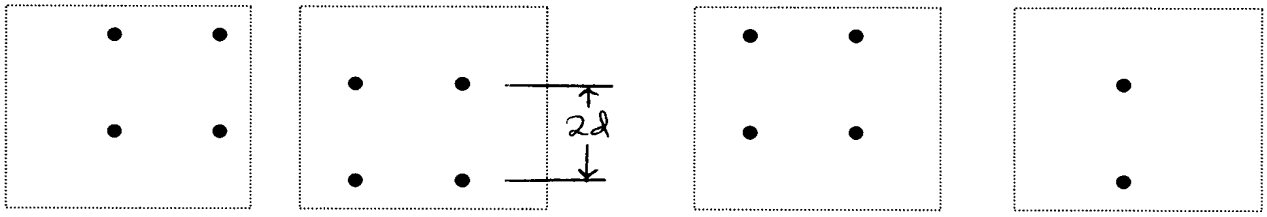

Figure 1C: Prior Art

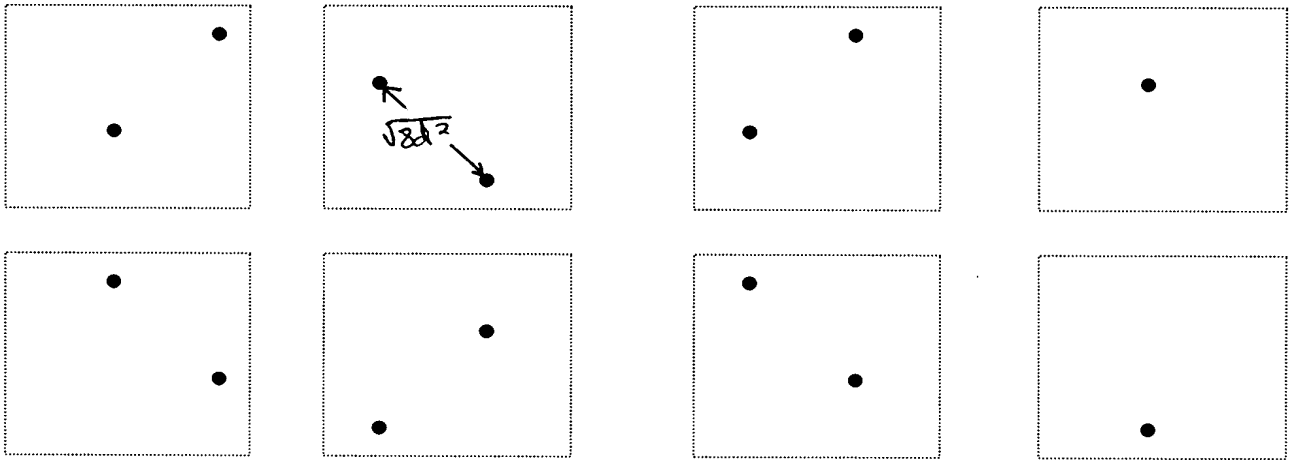

Figure 1D: Prior Art

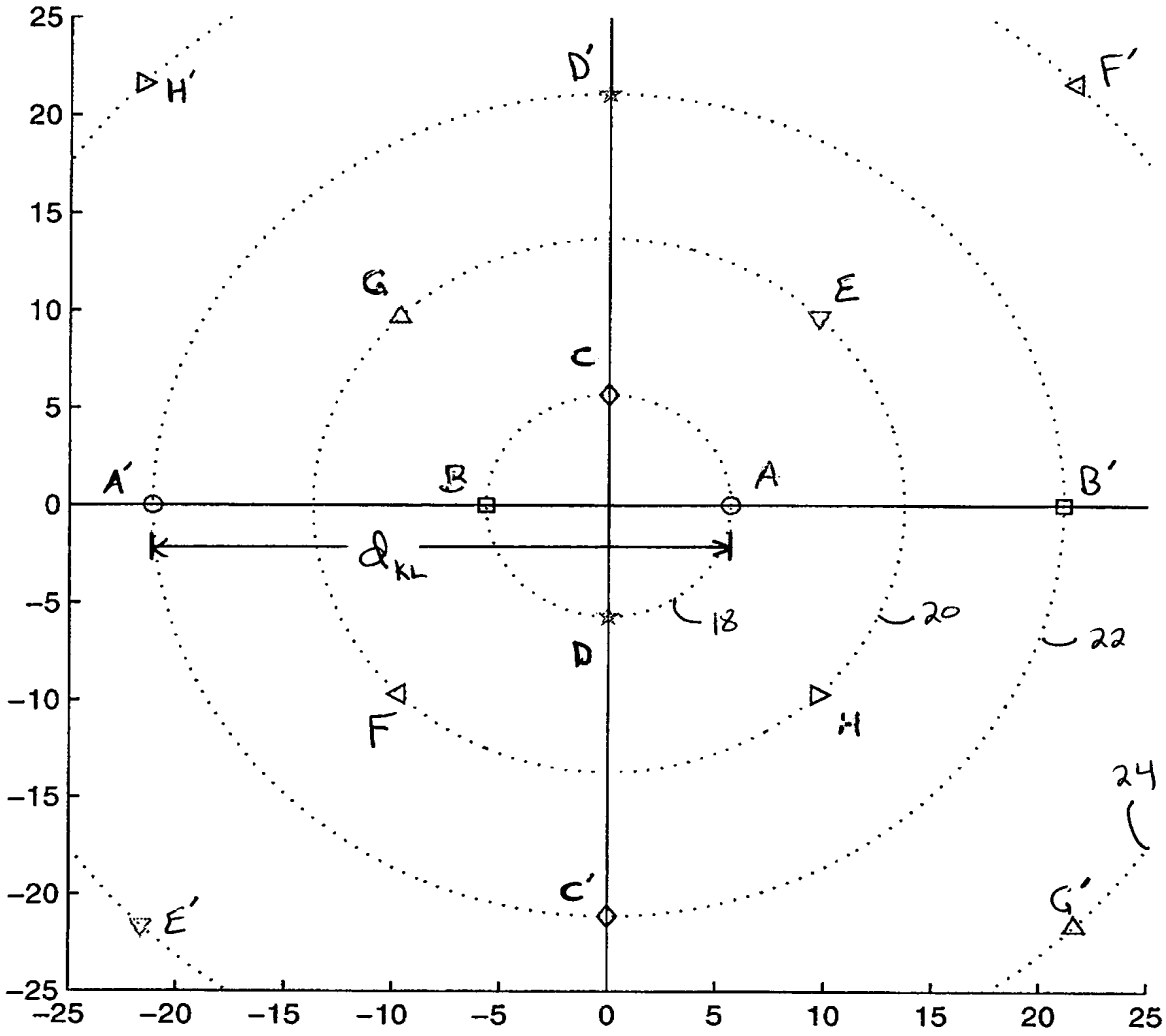
25
20
15
10
5
0
−5
−10
−15
−20
−25
−25
−20
−15
−10
−5
0
5
10
15
20
25
H′
D′
F′
G
E
C
A′
B
A
B′
d_{KL}
18
20
22
D
F
H
24
C′
E′
G′

Figure 2

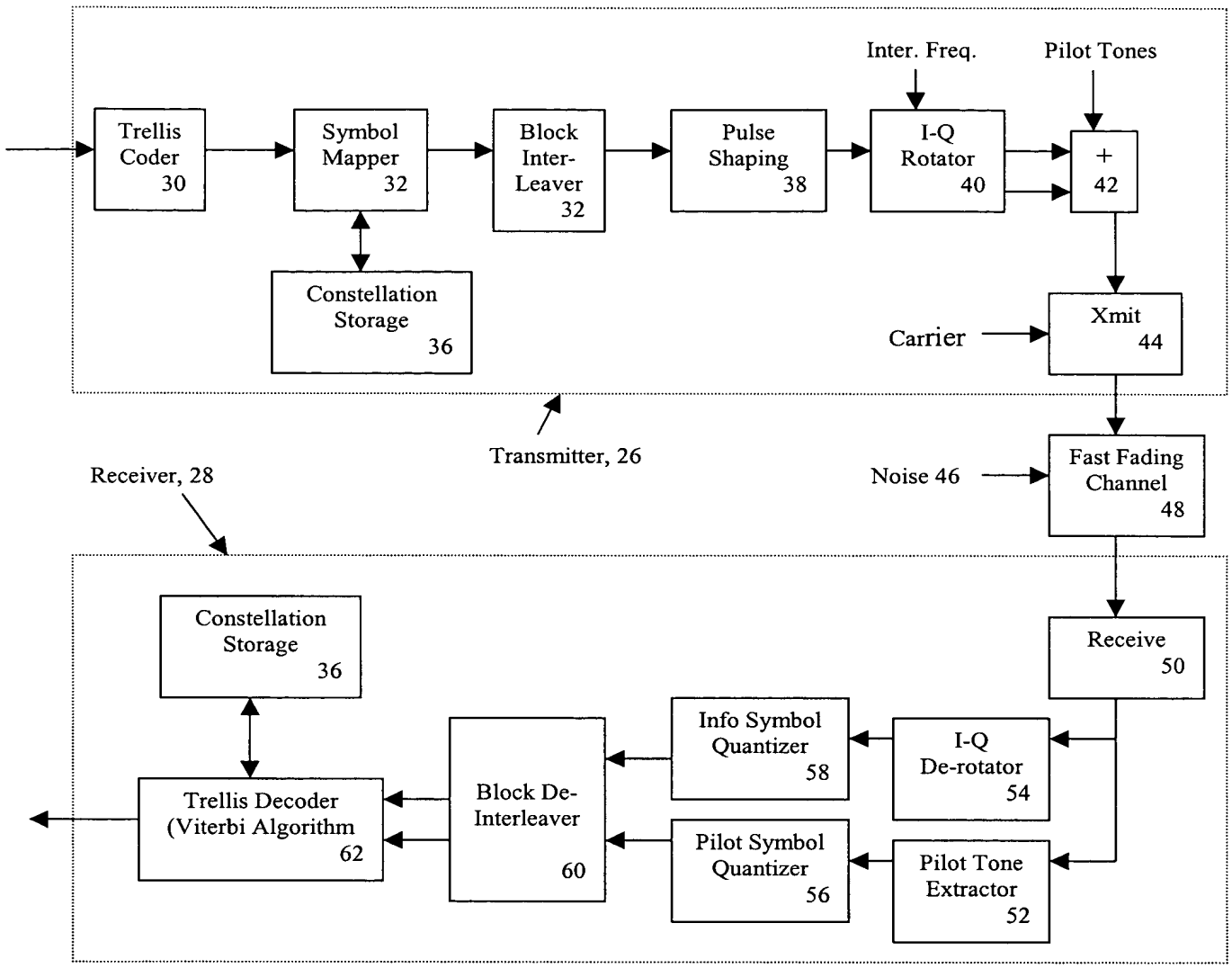
Inter. Freq.
Pilot Tones
Trellis Coder 30
Symbol Mapper 32
Block Inter-Leaver 32
Pulse Shaping 38
I-Q Rotator 40
+ 42
Constellation Storage 36
Carrier
Xmit 44
Transmitter, 26
Receiver, 28
Noise 46
Fast Fading Channel 48
Constellation Storage 36
Receive 50
Info Symbol Quantizer 58
I-Q De-rotator 54
Trellis Decoder (Viterbi Algorithm 62
Block De-Interleaver 60
Pilot Symbol Quantizer 56
Pilot Tone Extractor 52

Figure 3

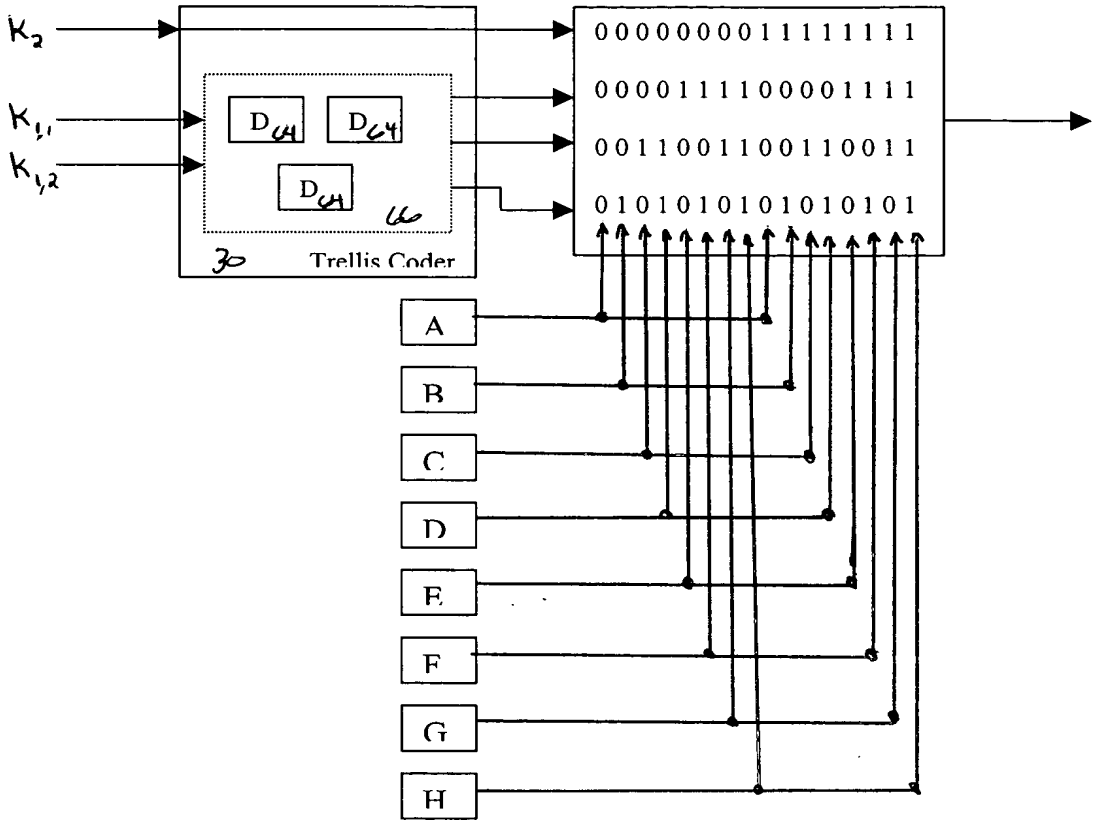
K2
K1,1
K1,2
D
D
D
Trellis Coder
0000000011111111
0000111100001111
0011001100110011
0101010101010101
A
B
C
D
E
F
G
H

Figure 4

Octal Transfer Function: [1 4 2; 4 3 0]

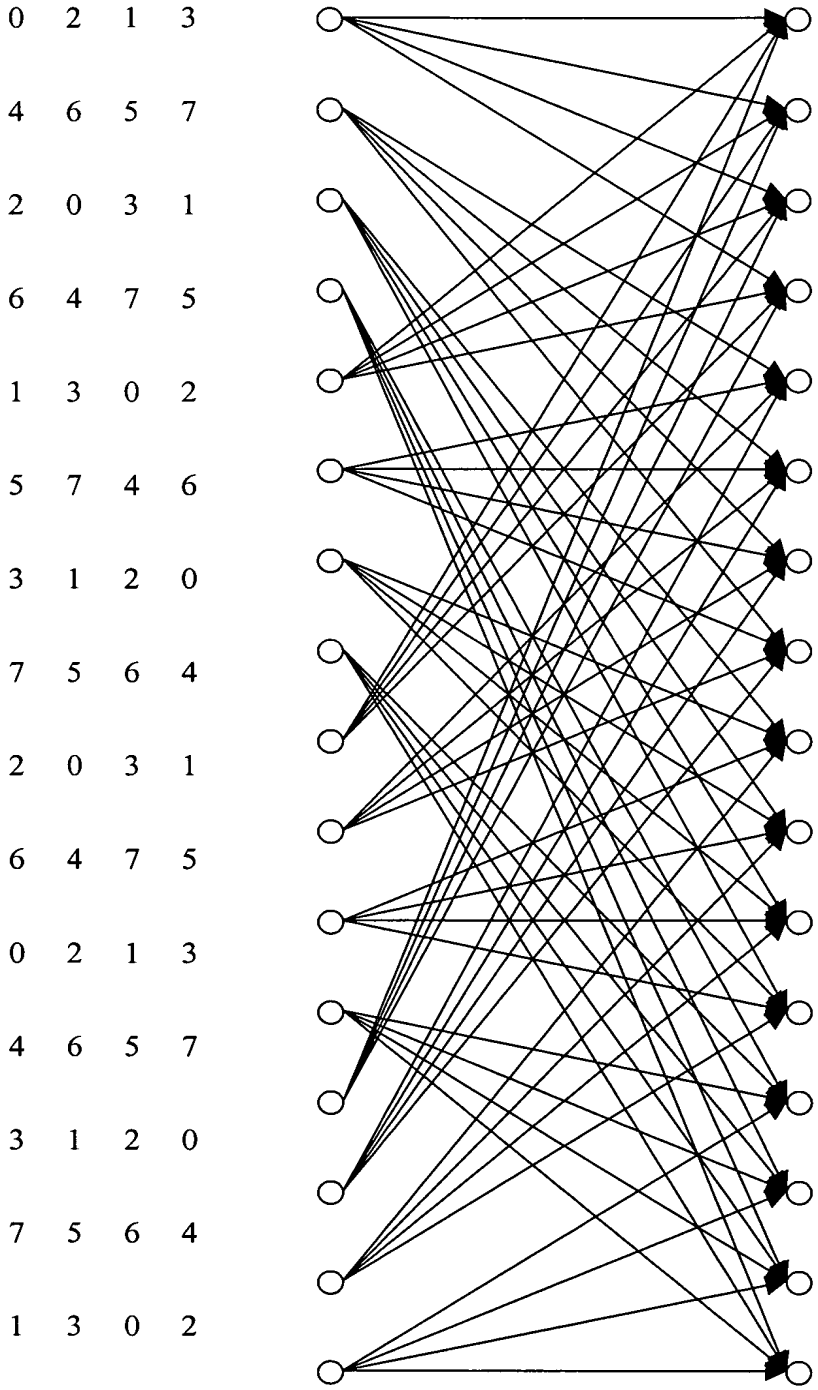

Figure 5

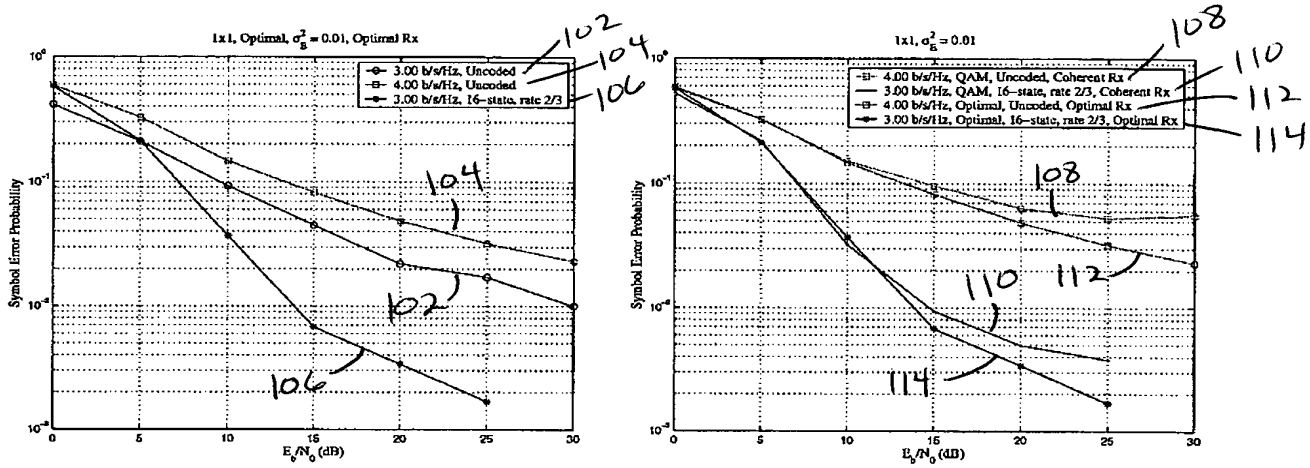

Figure 6

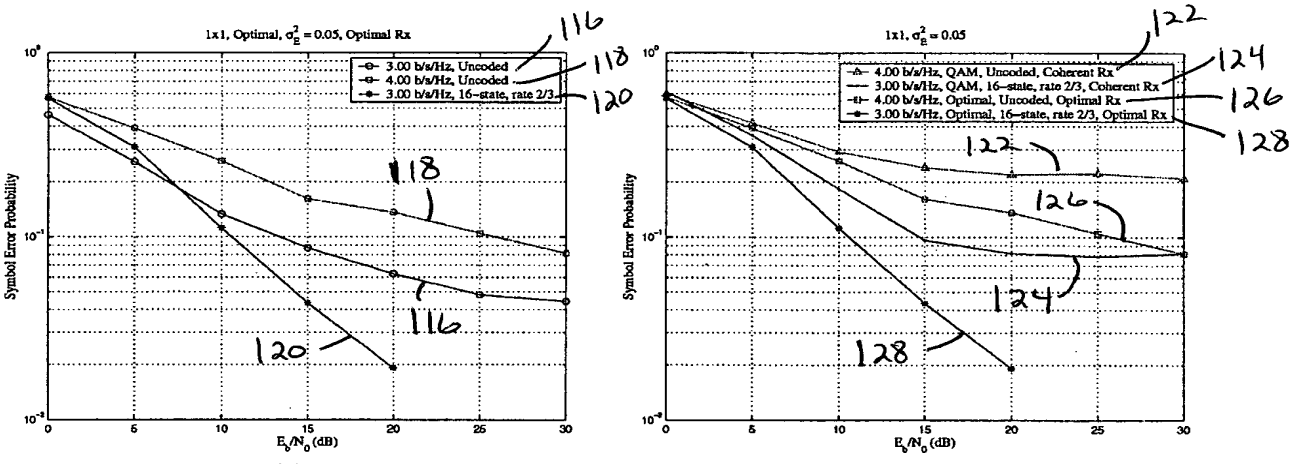

Figure 7